

**MATERIAL SAFETY DATA SHEET**

This form complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

IDENTITY (As Used on Label and List): **Arvanil**

SECTION I - Product Identification
Arvanil

| | | |
|--------------------------------|---------------|---------------------------|
| Manufacturer Name and Address: | Telephone #s: | Dates: |
| Cayman Chemical Company | (800)364-9897 | Date Entered: 11/13/2000 |
| 1180 E. Ellsworth Rd. | | Last Revision: 11/13/2000 |
| Ann Arbor, MI. 48108 | (734)971-3335 | MSDS Printed: 11/13/2000 |

Synonyms:
N-[(4-hydroxy-3-methoxyphenyl)methyl]-5Z,8Z,11Z,14Z-eicosatetrae namide; N-Vanillylarachidonamide
Chemical Family: Lipid Neurotransmitters
Hazard Label: Health: 2
Molecular Formula: C28H41NO3 Flammability: 2 , Molecular Weight: 439.60 Reactivity: 0

SECTION II - Hazardous Ingredients/Identity Information
Arvanil

| Hazardous Components (Specific Chemical Identity/Common Name) | CAS # | OSHA PEL | ACGIH TLV | Other Limits | Percentage |
|---|-------------|----------|-----------|--------------|------------|
| Arvanil | 128007-31-8 | | | | 100.0 |

SECTION III - Physical/Chemical Characteristics
Arvanil

Boiling Point: NE or NA Specific Gravity (Water = 1): NE or NA Melting Point: NE or NA Vapor Pressure (mm Hg): . . . NE or NA
Vapor Density (Air=1): . . . NE or NA Physical States: [] Gas Evaporation Rate: NE or NA [X] Liquid (Butyl Acetate=1) []
Solid Solubility In Water: 1 mg/ml* at 25.0 C *0.1M Na2CO3, sol. in EtOH, DMSO, & DMF Percent Volatile: NE or NA
Appearance and Odor:
A clear, colorless solution

SECTION IV - Fire and Explosion Hazard Data
Arvanil

**MATERIAL SAFETY DATA SHEET**

This form complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

IDENTITY (As Used on Label and List): **Olvanil**

SECTION I - Product Identification
Olvanil

| | | | |
|--------------------------------|----------------------|---------------|---------------------------|
| Manufacturer Name and Address: | | Telephone #s: | Dates: |
| Cayman Chemical Company | Cayman Chemical Comp | (800)364-9897 | Date Entered: 11/13/2000 |
| 1180 E. Ellsworth Rd. | | | Last Revision: 11/13/2000 |
| Ann Arbor, MI. 48108 | Cayman Chemical Comp | (734)971-3335 | MSDS Printed: 11/13/2000 |

Synonyms:
N-[(4-hydroxy-3-methoxyphenyl)methyl]-9Z-octadecenamide; NE 19550; N-Vanillyloleamide
Chemical Family: Lipid Neurotransmitters
Hazard Label: Health: 2
Molecular Formula: C₂₆H₄₃NO₃ Flammability: 2 , Molecular Weight: 417.60 Reactivity: 0

SECTION II - Hazardous Ingredients/Identity Information
Olvanil

| Hazardous Components (Specific Chemical Identity/Common Name) | CAS # | OSHA PEL | ACGIH TLV | Other Limits | Percentage |
|---|------------|----------|-----------|--------------|------------|
| Olvanil | 58493-49-5 | | | | 100.0 |

SECTION III - Physical/Chemical Characteristics
Olvanil

Boiling Point: NE or NA Specific Gravity (Water = 1): NE or NA Melting Point: NE or NA Vapor Pressure (mm Hg): . . . NE or NA
Vapor Density (Air=1):. . . . NE or NA Physical States: [] Gas Evaporation Rate: NE or NA [X] Liquid (Butyl Acetate=1) []
Solid Solubility In Water:. . . . 1 mg/ml* at 25.0 C *0.1M Na₂CO₃, sol. in EtOH, DMSO, & DMF Percent Volatile: NE or NA
Appearance and Odor:
A clear, colorless solution

SECTION IV - Fire and Explosion Hazard Data
Olvanil